BRUHAT BANGALORE MAHANAGARA PALIKE
Yelahanka Division, Yelahanka Zone

Executive Engineer
Yelahanka Division
B.B.M.P. Bengaluru -64

APPROVED SCHEDULE -'B'

NAME OF WORK:- Asphalting to Sainagara phase-II and Bestcounty - III and surrounding areas in ward no-03 Yelahanka Satellite Town sub Division

Sl	Description of Work	Unit	Approved Qty	Approved Rate Technical Manager (West) KRIDL, BBMP,	
				Rate	Rate In Words
1	KSRRB 300-1.Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications 5km lead= 57+2.0x1.28x5 =69.80. complete as per specifications and directions of the Engineer in charge.	Cum	973.56	207.60	Rupees Two Hundred Seven and Sixty Paise Only
2	KSRRB M2100 PCC 1 KSRRB M2100-10.Providing and laying Plain cement concrete of mix1:3:6 with OPC cement @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days Including cost of materials,labour, HOM curing form work, Scaffolding and Centering complete as per specifications and directions of the Engineer in charge.	Cum	161.73	5421.90	Rupees Five Thousand Four Hundred Twenty One and Ninety Paise Only
3	Providing laying plain/ reinforced cement concrete for side Drains Using M20 nominal mix Concrete with OPC at 300kgs.With 20mm and Down size granite metal coarse aggregate at 0.69cum and fine aggregate at 0.43cum Machne mixed, well compacted for wall and Bottom including centering shuttering,cost of materials,HOM of Machinery,Curing Etc.,Complete Excluding cost of Steel as per morth MORTH specification No. 1500, 1700, 2200. Including Cost of material, Labour, HOM complete as per Specification-WALL & Bottom thickness 15Cmcomplete as per specifications and directions of the Engineer in charge.	Cum	323.93	7070.20	Rupees Seven Thousand Seventy and Twenty Paise Only
4	KSRB M2200-6 Providing T.M.T bars Fe 500 steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications and directions of the Engineer in charge.	tonne	21.01	72326.98	Rupees Seventy Two Thousand Three Hundred Twenty Six and Ninety Eight Paise Only

Executive Engineer-3
KRIDL, BBMP, Bangalore

Executive Engineer
B.B.M.P Division
Yelahanka

5	Providing and Fixing pre cast covering Slab made out of CC 1:2:4 with 10cm thick and Finishing cutting ,including form work,curing,including cost of alll materials, labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc ,copmplete. (Data Rate) complete as per specifications and directions of the Engineer in charge.	Sqm	837.11	2337.00	Rupees Two Thousand Three Hundred Thirty Seven Only
6	Providing and Fixing pre cast covering Slab 250mm thick made out of CC 1:2:4 and jelly 20mm Down size with steel reinforcement including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete as per specifications and directions of the Engineer in charge.	Sqm	7.20	5418.00	Rupees Five Thousand Four Hundred Eighteen Only
7	KSRB 4-1.6 ; Providing and laying in position plain cement concrete of Mix 1:2:4 with OPC @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregtes @ 0.53cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM curing complete as per specifications and directions of the Engineer in charge.	Cum	3.31	5747.32	Rupees Five Thousand Seven Hundred Forty Seven and Thirty Two Paise Only
8	Providing and fixing pre cast solid cement concrete kerb stones made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation ete.,complete as per specifications and directions of the Engineer in charge.	Nos	736.00	432.48	Rupees Four Hundred Thirty Two and Forty Eight Paise Only
9	KSRRB 800-1.Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications and directions of the Engineer in charge.	Sqm	132.36	84.80	Rupees Eighty Four and Eighty Paise Only
10	KSRRB M300-14.Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications MORTH Specificatio MORTH Specification No.301Loading and unloading with 10km lead complete as per specifications and directions of the Engineer in charge.	Cum	2231.96	56.26	Rupees Fifty Six and Twenty Six Paise Only
11	KSRRB 300-58. Compaction of original ground by mechanical means including filling in depression occuring during rolling including cost of all labour, HOM complete as per specifications and directions of the Engineer in charge.	Sqm	5909.55	6.36	Rupees Six and Thirty Six Paise Only

Executive Engineer-3
KRIDL, BBMP, Bangalore

Executive Engineer
B.B.M.P Division
Yelahanka

12	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications Clause 401 of MORTH V Revision. complete as per specifications and directions of the Engineer in charge.	Cum	886.43	1994.92	Rupees One Thousand Nine Hundred Ninety Four and Ninety Two Paise Only
13	KSRRB M400-17.Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications and directions of the Engineer in charge.	Cum	1345.52	2001.28	Rupees Two Thousand One and Twenty Eight Paise Only
14	KSRRB 500-1.Cleaning the existing WBM Road surface including removing of binding materials and other foreign matter with wire brushes and small picks sweeping with brooms or soft brushes and finally dusting with old gunny bags and bar or compressed air to receive bituminous treatment including cost of all materials, labhour, HOM of machineries complete as per specifications and directions of the Engineer in charge.	Sqm	5909.55	22.26	Rupees Twenty Two and Twenty Six Paise Only
15	KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications and directions of the Engineer in charge.	Sqm	5909.55	33.92	Rupees Thirty Three and Ninety Two Paise Only
16	KSRRB 500-2.Cleaning the existing black topped surface with brooms,soft brushes and finally dusting with old gunny bags and/or compressed air to receive bituminous treatment including cost of all materials,labhour, HOM of machineries complete as per specifications.complete as per specifications and directions of the Engineer in charge.	Sqm	5909.55	5.30	Rupees Five and Thirty Paise Only
17	KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOMcomplete as per specifications and directions of the Engineer in charge.	Sqm	5909.55	12.72	Rupees Twelve and Seventy Two Paise Only

Executive Engineer-3
KRIDL, BBMP, Bangalore

Executive Engineer
B.B.M.P Division
Yelahanka

18	KSRRB M500-17.Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications Clause 505 of MORTH V revisionusing 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen complete as per specifications and directions of the Engineer in charge.	Cum	295.48	7428.48	Rupees Seven Thousand Four Hundred Twenty Eight and Forty Eight Paise Only
19	Providing and laying Bituminous Concrete 40 mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment , rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications.Clause 507 of MORTH V revision as per IRC SP-53-2015 - using 40-60 TPH capacity HMP with mechanical Paver, Gr-II (30-45mm) with 5.4 % of modified bitumen binder consisting of 4.97% VG- 30 bitumen (60/70 grade) 0.43% Plastomeric Thermoplastics (Waste plastic Additive). complete as per specifications and directions of the Engineer in charge.	Cum	231.82	8699.42	Rupees Eight Thousand Six Hundred Ninety Nine and Forty Two Paise Only
20	KSRRB M800-13.Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface/ Concrete Surface: Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 standards specified. The finished surface to be level, uniform and free from streaks and holes complete as per specifications and directions of the Engineer in charge.	Sqm	181.73	454.74	Rupees Four Hundred Fifty Four and Seventy Four Paise Only

Executive Engineer-3
KRIDL, BBMP, Bangalore

Executive Engineer
B.B.M.P Division
Yelahanka

21	KSRRB M800 Road markers/ Road stud , KSRRB M800-35. Supply and Installtion of Moulded Shank Raised Pavement Markers made of polycarbonate and ABS (Acrylonitrile Butadiene Styrene) moulded body and reflective panels with micro prismatic lens capable of providing total internal reflection of the light entering thje lens face and shall support a load of 16000 kg tested in accordance to Specifications of Category A of MORTH Circular No RW/NH/33023/10-97-DO III Dt 11.06.1997.The height, width and length shall not exceed 50mm, 100mm and 102 mm and with minimum reflective area of 13 Sqcm on each side and the slope to the base shall be 35 degree.The strength of detachment of the integrated cylindrical shanks, (of diameter not less than 19mm and height not less than 30mm)from the body is to be a minimum value of 500kg. Fixing will be by drilling holes on the road for the shanks to go inside, without ails and using epoxy resin based adhesive as per manufacture's recommendation and complete as per specifications and directions of the Engineer in charge.	Nos	559.43	357.22	Rupees Three Hundred Fifty Seven and Twenty Two Paise Only
22	Filling in foundation with granite/trap broken metal 100mm and down size ,with approved sand including hand packing, ramming, watering, including cost of all materials and labour with lead up to 50m and lift 1.5m complete as per specifications. 40mm Jelly .complete as per specifications and directions of the Engineer in charge.				
	a) 40mm Jelly	Cum	0.62	1901.00	Rupees One Thousand Nine Hundred One Only
	b) 20mm Jelly	Cum	0.62	1901.00	Rupees One Thousand Nine Hundred One Only
	c) Coarse sand .	Cum	0.47	2651.00	Rupees Two Thousand Six Hundred Fifty One Only
	d) Fine sand .	Cum	0.31	2651.00	Rupees Two Thousand Six Hundred Fifty One Only
	e) 12.5mm chips	Cum	0.47	1901.00	Rupees One Thousand Nine Hundred One Only

Executive Engineer-3
KRIDL, BBMP, Bangalore

Executive Engineer
B.B.M.P Division
Yelahanka

23	Supplying, laying and jointing HDPE pipes of specified grade and conforming to IS 4984-995 with latest amendments and conveying to work site including loading at both destinations and rolling and lowering into trenches, laying true to line and jointing of pipes and specials, giving hydraulic test as per relevant ISS with all lead and lifts including encasing the pipe alround to a depth of not less than 15 cms. with soft gravel or selected earth available from the excavation, testing and commissioning. The rate is exclusive of required specials and fittings wherever necessary like saddle tee, stud ends, flanged sets, bends, reducers etc. complete (Contractor will make his own arrangements for procuring water for testing) etc. for: HDPE Grade PE80-PN6.0, 630mm dia .(Perforated Pipe for Rain Water Harvesting Pit) complete as per specifications and directions of the Engineer in charge.	Rmt	9.00	10822.32	Rupees Ten Thousand Eight Hundred Twenty Two and Thirty Two Paise Only
24	Providing of Geonets for Rain Water Harvesting pit on the filter media as specified in drawings or complete as per specifications and directions of the Engineer in charge.	Sqm	1.55	71.03	Rupees Seventy One and Three Paise Only

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